

856 Ship Notice/Manifest

Functional Group ID=**SH**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Notes:

1. Organizations use this transaction set to transmit shipment manifest information of hazardous waste being transported for disposal.

Subordinate/related uses of the transaction set include:

- Certify transfer/receipt of the waste to the generator and others as needed.
- Notify state environmental agencies of failure to receive certification/confirmation.
- Provide cradle-to-grave manifest audit trail information for disposal.
- Provide a summary report of waste imported into the U.S.

2. Use a single occurrence of this transaction to transmit one or more line items on a single manifest or summary report.

3. This transaction set contains the data requirements to electronically transmit the Federal Uniform Hazardous Waste Manifest (UHWM) including continuation sheets.

4. There are two appendices for this implementation convention. Appendix A provides a cross reference between the transaction set and the UHWM form. Appendix B provides measurement conversion and type of container tables.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BSN	Beginning Segment for Ship Notice	M	1		
	040	DTM	Date/Time Reference	O	10		

Detail:

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	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	
Must Use	010	HL	Hierarchical Level	M	1		c1
	020	LIN	Item Identification	O	1		
N/U	030	SN1	Item Detail (Shipment)	O	1		
N/U	040	SLN	Subline Item Detail	O	1000		
N/U	050	PRF	Purchase Order Reference	O	1		
N/U	060	PO4	Item Physical Details	O	1		
	070	PID	Product/Item Description	O	200		
	080	MEA	Measurements	O	40		
N/U	090	PWK	Paperwork	O	25		
N/U	100	PKG	Marking, Packaging, Loading	O	25		
	110	TD1	Carrier Details (Quantity and Weight)	O	20		
N/U	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
N/U	130	TD3	Carrier Details (Equipment)	O	12		
	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
	150	REF	Reference Identification	O	>1		
N/U	151	PER	Administrative Communications Contact	O	3		
			LOOP ID - LH1			100	
	152	LH1	Hazardous Identification Information	O	1		
	153	LH2	Hazardous Classification Information	O	4		
	154	LH3	Hazardous Material Shipping Name	O	12		
	155	LFH	Freeform Hazardous Material Information	O	20		
	156	LEP	EPA Required Data	O	3		
N/U	157	LH4	Canadian Dangerous Requirements	O	1		
N/U	158	LHT	Transborder Hazardous Requirements	O	3		
N/U	159	LHR	Hazardous Material Identifying Reference Numbers	O	10		
N/U	160	PER	Administrative Communications Contact	O	5		
N/U	161	LHE	Empty Equipment Hazardous Material Information	O	1		
			LOOP ID - CLD			200	
	170	CLD	Load Detail	O	1		
	180	REF	Reference Identification	O	200		
N/U	185	DTP	Date or Time or Period	O	1		
N/U	190	MAN	Marks and Numbers	O	>1		
	200	DTM	Date/Time Reference	O	10		
N/U	210	FOB	F.O.B. Related Instructions	O	1		
N/U	215	PAL	Pallet Information	O	1		
			LOOP ID - N1			200	
	220	N1	Name	O	1		
	230	N2	Additional Name Information	O	2		
	240	N3	Address Information	O	2		
	250	N4	Geographic Location	O	1		
	260	REF	Reference Identification	O	12		

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	270	PER	Administrative Communications Contact	O	3
N/U	280	FOB	F.O.B. Related Instructions	O	1
N/U	290	SDQ	Destination Quantity	O	50
N/U	300	ETD	Excess Transportation Detail	O	1
N/U	310	CUR	Currency	O	1
N/U	320	SAC	Service, Promotion, Allowance, or Charge Information	O	>1
N/U	330	GF	Furnished Goods and Services	O	1
N/U	335	YNQ	Yes/No Question	O	10
LOOP ID - LM					10
N/U	340	LM	Code Source Information	O	1
N/U	350	LQ	Industry Code	M	100
LOOP ID - V1					>1
N/U	360	V1	Vessel Identification	O	1
N/U	370	R4	Port	O	>1
N/U	380	DTM	Date/Time Reference	O	>1

Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	No.	ID	Name	Des.	Max.Use	Repeat	Comments
N/U	010	CTT	Transaction Totals	O	1		n1
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

Segment: **ST** Transaction Set Header

Position: 010

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of a transaction set and to assign a control number

Syntax Notes:

Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use ST01	143	Transaction Set Identifier Code	M	ID 3/3
		Code uniquely identifying a Transaction Set		
		856 X12.10 Ship Notice/Manifest		
Must Use ST02	329	Transaction Set Control Number	M	AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
		<i>A unique number assigned to this transaction set for control purposes. Usually assigned by the translation software. This is the same number that appears in SE02.</i>		

Segment: **BSN** Beginning Segment for Ship Notice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: 1 If BSN07 is present, then BSN06 is required.
Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.
3 BSN06 is limited to shipment related codes.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use BSN01	353	Transaction Set Purpose Code	M	ID 2/2
Code identifying purpose of transaction set				
	00	Original		
		<i>Use to indicate an original 856 transaction set.</i>		
	01	Cancellation		
	05	Replace		
		<i>Use to indicate that a change has been made to a previous transaction set. When used, all data, whether changed or not, must be retransmitted. When used, the retransmitted data will overwrite the information in the receiving database.</i>		
	07	Duplicate		
		<i>Use to indicate the re-transmission of an original 856 transaction set.</i>		
	18	Reissue		
		<i>Use to indicate a supplement to the Foreign Waste Shipment Summary. Use only in conjunction with 1/BSN06/020 code RP.</i>		
Must Use BSN02	396	Shipment Identification	M	AN 2/30
A unique control number assigned by the original shipper to identify a specific shipment				
<i>Use to identify a unique manifest document number. This is the concatenation of the Generator's Environmental Protection Agency (EPA) ID number, followed by the manifest number.</i>				
<i>For Foreign Waste Shipment Summaries cite the first reported manifest in the group.</i>				

Must Use	BSN03	373	Date	M	DT 6/6
			Date (YYMMDD)		
			1. Use to indicate the transaction set creation date.		
			2. This date corresponds to the Universal Time Coordinate (UTC).		
Must Use	BSN04	337	Time	M	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
			1. Express the originating organization's time in UTC.		
			2. Express time in a four-position (Hour Hour Minute Minute) format.		
N/U	BSN05	1005	Hierarchical Structure Code	O	ID 4/4
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set		
Must Use	BSN06	640	Transaction Type Code	X	ID 2/2
			Code specifying the type of transaction		
			NQ Disposal Shipment Confirmation		
			Use to indicate a waste shipment from the generator to a treatment, storage and disposal facility (TSDF).		
			P1 Preliminary		
			Use to indicate a preliminary manifest created for review and concurrence.		
			RP Reporting		
			Use to indicate a Foreign Waste Shipment Summary.		
			Use only mandatory segments and data elements and those specifically noted as being used in a Foreign Waste Shipment Summary.		
			TH Receipt Acknowledgment Advice		
			Use to indicate a certification of receipt to the generator by a TSDF or transporter.		
			TS Transfer Statement		
			Use to indicate a manifest prepared by a TSDF when the waste is released/moved or due to a change in transportation mode/carrier manifest (e.g., from truck to ocean). This is not the original manifest from a generator.		
	BSN07	641	Status Reason Code	O	ID 3/3
			Code indicating the status reason		
			A95 Past Cutoff Time		
			Use only in conjunction with BSN06 codes NQ or TS to indicate the generator is forwarding a manifest to a state agency when no receipt has been obtained		

from the receiving TSDF.

Segment: **DTM** Date/Time Reference

Position: 040

Loop:

Level: Heading

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM06 is required.
- 2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:

Comments:

Notes: *Must use in a Foreign Waste Shipment Summary to identify the time period of the report.*

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			174 Month Ending	
			<i>Use to indicate the reporting period for the Foreign Waste Shipment Summary.</i>	
Must Use	DTM02	373	Date	X DT 6/6
			Date (YYMMDD)	
N/U	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
N/U	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
	DTM05	624	Century	O N0 2/2
			The first two characters in the designation of the year (CCYY)	
N/U	DTM06	1250	Date Time Period Format Qualifier	X ID 2/3
			Code indicating the date format, time format, or date and time format	
N/U	DTM07	1251	Date Time Period	X AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times	

Segment: **HL** Hierarchical Level
Position: 010
Loop: HL
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:**Semantic Notes:**

- Comments:**
- 1** The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
 - 2** HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4** HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: *1. For manifests the transaction set hierarchical data structure is a single shipment handler information loop, followed by one or more line item detail loops, followed by any certification loop(s) as needed.*

2. The single shipment handler loop iteration identifies the shipping and receiving organizations, transporter(s), and other associated organizations along with point of contact (POC) data for each organization.

Each 2/HL/010 line item loop iteration provides identification, quantity and other detail for one manifest line item. At least one line item iteration must exist for each manifest.

Each certification 2/HL/010 loop iteration provides certification detail including organization identification, certifying individual and PIN, and communications numbers.

One or more certification loop iterations must be used to report transfer/receipt of the waste as part of the EPA UHWM to the generator and state environmental organizations. They are not necessary when the transaction set is being used only to convey manifest data between automated systems.

3. For Foreign Waste Shipment Summaries, the transaction set hierarchical data

structure is a single submitter loop, followed by one or more line item detail loops.

The single shipment handler loop iteration identifies the generating organization within the foreign country and the U.S. receiving organization.

Each 2/HL/010 line item loop iteration provides identification, quantity and other detail for one line item. At least one line item iteration must exist for each Foreign Waste Shipment Summary.

Data Element Summary

Ref.	Data			
Des.	Element	Name	Attributes	
Must Use HL01	628	Hierarchical ID Number	M	AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
		<i>In the first 2/HL/010 loop iteration cite only the numeric 1. In each subsequent loop iteration increase incrementally by 1.</i>		
HL02	734	Hierarchical Parent ID Number	O	AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
		<i>1. Do not use in the 2/HL/010 shipment handler loop.</i>		
		<i>2. Cite the number 1 in all 2/HL/010 line item loops and certification loops.</i>		
Must Use HL03	735	Hierarchical Level Code	M	ID 1/2
		Code defining the characteristic of a level in a hierarchical structure		
	24	Supergroup		
		<i>Use to identify a Foreign Waste Shipment Summary Submitter loop. This loop identifies the submitting and receiving organizations. The submitter loop is always the first iteration of the 2/HL/010 loop and is always used once. It must be followed by one or more subordinate line item loops.</i>		
	I	Item		
		<i>Use to identify each manifest line item of waste and it's characteristics and quantities. Use a separate 2/HL/010 loop for each manifest line item waste description detail.</i>		
	S	Shipment		
		<i>Use to identify ship-from and ship-to organizations and other information associated with the shipment as a whole. The shipment handler loop is always the first iteration of the 2/HL/010 loop and is to be used only once. It must be followed by one or more subordinate line item loops. Certification loop(s)</i>		

V *may follow the line item loops as needed.*
 Address Information
Use to identify acceptance/transfer of the waste by an organization and an associated individual. Use a separate certification loop for each certifying organization.

N/U	HL04	736	Hierarchical Child Code	O ID 1/1
Code indicating if there are hierarchical child data segments subordinate to the level being described				

Segment:	LIN Item Identification
Position:	020
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 1 See the Data Dictionary for a complete list of IDs. 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.
Notes:	<ol style="list-style-type: none"> 1. <i>Must use this 2/LIN/020 segment in 2/HL/010 manifest line item loops, to identify the waste shipped.</i> 2. <i>Do not use in Foreign Waste Shipment Summary.</i>

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use LIN01	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		<i>Use to identify the manifest line number.</i>	
Must Use LIN02	235	Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		<i>Must use at least one of the listed codes in PID02-3. Use additional 235/234 pairs as needed to provide further identification.</i>	
		A3 Locally Assigned Control Number	
		<i>Use to indicate a number or nomenclature assigned</i>	

			CO	by the generator to identify the waste line item Chemical Abstract Service (CAS) Registry Number <i>Use to indicate the CAS identification number.</i>		
			IN	Buyer's Item Number <i>Must use in Defense Reutilization and Marketing Service (DRMS) shipments to indicate the Hazardous Identification Number (HIN).</i>		
			TU	Tested Material Identification Number <i>Use to indicate the TSDF's profile number.</i>		
Must Use	LIN03	234	Product/Service ID		M	AN 1/40
				Identifying number for a product or service		
	LIN04	235	Product/Service ID Qualifier		X	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	LIN05	234	Product/Service ID		X	AN 1/40
				Identifying number for a product or service		
	LIN06	235	Product/Service ID Qualifier		X	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	LIN07	234	Product/Service ID		X	AN 1/40
				Identifying number for a product or service		
	LIN08	235	Product/Service ID Qualifier		X	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
	LIN09	234	Product/Service ID		X	AN 1/40
				Identifying number for a product or service		
N/U	LIN10	235	Product/Service ID Qualifier		X	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
N/U	LIN11	234	Product/Service ID		X	AN 1/40
				Identifying number for a product or service		
N/U	LIN12	235	Product/Service ID Qualifier		X	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
N/U	LIN13	234	Product/Service ID		X	AN 1/40
				Identifying number for a product or service		
N/U	LIN14	235	Product/Service ID Qualifier		X	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
N/U	LIN15	234	Product/Service ID		X	AN 1/40
				Identifying number for a product or service		
N/U	LIN16	235	Product/Service ID Qualifier		X	ID 2/2

			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
N/U	LIN17	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
N/U	LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
N/U	LIN19	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
N/U	LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
N/U	LIN21	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
N/U	LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
N/U	LIN23	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
N/U	LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
N/U	LIN25	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
N/U	LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
N/U	LIN27	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
N/U	LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
N/U	LIN29	234	Product/Service ID Identifying number for a product or service	X	AN 1/40
N/U	LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
N/U	LIN31	234	Product/Service ID Identifying number for a product or service	X	AN 1/40

Segment:	PID Product/Item Description
Position:	070
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	200
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	<ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID03 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 Use PID03 to indicate the organization that publishes the code list being referred to. 2 PID04 should be used for industry-specific product description codes. 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate. 4 PID09 is used to identify the language being used in PID05.
Comments:	<ol style="list-style-type: none"> 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used. 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment. 3 PID07 specifies the individual code list of the agency specified in PID03.
Notes:	<ol style="list-style-type: none"> 1. <i>Must use 2 occurrences of this 2/PID/070 segment in 2/HL/010 manifest line item loops. Use the first occurrence to identify whether the item is hazardous or non hazardous and the handling code. Use the second occurrence to indicate the physical state.</i> 2. <i>Also use additional iterations as needed in line item loops to indicate state waste codes.</i> 3. <i>Must use this PID segment in Foreign Waste Shipment Summary line item loops to identify Handling Codes (i.e., System Type Code or Treatment Codes) and State Waste Codes.</i>

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PID01	349	Item Description Type	M ID 1/1
			Code indicating the format of a description	
			F	Free-form
				<i>Use as needed to provide additional descriptive information not available from code sources. Use in conjunction with PID02 codes PFA and STL and PID05.</i>

			S	Structured (From Industry Code List) <i>Must use to indicate handling codes from industry code lists. Use in conjunction with PID02 codes HZ and NH and PID04.</i>	
Must Use	PID02	750	Product/Process Characteristic Code	O ID 2/3	
				Code identifying the general class of a product or process characteristic <i>Must use only one of codes HZ or NH.</i>	
			HZ	Hazardous Material <i>Use with PID04 to indicate the handling code (treatment code).</i>	
			NH	Non-Hazardous Material <i>Use with PID04 to indicate the handling code.</i>	
			PFA	Physical Form <i>Use to indicate the physical state (liquid, solid, gas, sludge) in PID05.</i>	
			STL	State Controlled <i>1. Use to indicate the applicable state waste codes(s). Use in conjunction with PID01 code F. Cite the U.S. Postal Service abbreviation for the applicable state followed by a dash and then the specific waste code, in PID05.</i> <i>2. Use in Foreign Waste Summary Reports.</i>	
Must Use	PID03	559	Agency Qualifier Code	X ID 2/2	
				Code identifying the agency assigning the code values	
			DO	United States Department of Transportation (DOT)	
			EP	United States Environmental Protection Agency (EPA)	
	PID04	751	Product Description Code	X AN 1/12	
				A code from an industry code list which provides specific data about a product characteristic	
	PID05	352	Description	X AN 1/80	
				A free-form description to clarify the related data elements and their content	
N/U	PID06	752	Surface/Layer/Position Code	O ID 2/2	
				Code indicating the product surface, layer or position that is being described	
N/U	PID07	822	Source Subqualifier	O AN 1/15	
				A reference that indicates the table or text maintained by the Source Qualifier	
	PID08	1073	Yes/No Condition or Response Code	O ID 1/1	

Code indicating a Yes or No condition or response

Use only in conjunction with PID02 code HZ.

N

No

*Use to indicate the line item is non-Resource
Conservation and Recovery Act (RCRA).*

Y

Yes

Use to indicate that the line item is RCRA.

N/U

PID09

819

Language Code

O ID 2/3

Code designating the language used in text, from a standard code list
maintained by the International Standards Organization (ISO 639)

Segment:	MEA Measurements
Position:	080
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	40
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required. 2 If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:	<i>Use this 2/MEA/080 segment in 2/HL/010 manifest line item loops to identify optional test results.</i>

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
MEA01	737	Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		BT	Batch Limits
			<i>Use to indicate that it is estimated waste as reported on a TSD Notification that is reported in MEA03.</i>
		TR	Test Results
MEA02	738	Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		1F	Radio Frequency
		A1	Acids
			<i>Use to indicate a value, normally shown as a percent of the total, showing the content of all acidic structures contained in a solution of a known product.</i>
		BUD	Bulk Density
		GR	Gravity
			<i>Use to indicate specific gravity</i>
		PSA	Percent Solution Actual
			<i>Use to indicate percentage.</i>
		VAD	Vapor Density

Must Use	MEA03	739	Measurement Value	X	R 1/20
			The value of the measurement		
Must Use	MEA04	C001	Composite Unit of Measure	X	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
Must Use	C00101	355	Unit or Basis for Measurement Code	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			<i>Use any code other than ZZ, but the following are preferred.</i>		
			<i>26 Actual Tons</i>		
			<i>CC Cubic Centimeter</i>		
			<i>CR Cubic Meter</i>		
			<i>CY Cubic Yard</i>		
			<i>FP Pounds Per Sq. Ft.</i>		
			<i>GA Gallon</i>		
			<i>KG Kilogram</i>		
			<i>KS 1000 Per Square Inch</i>		
			<i>LA Pounds Per Cubic Inch</i>		
			<i>LT Liter</i>		
			<i>N6 Megahertz</i>		
			<i>P1 Percent</i>		
			<i>PS Pounds per Sq. Inch</i>		
			Refer to 003060 Data Element Dictionary for acceptable code values.		
N/U	C00102	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
N/U	C00103	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
N/U	C00104	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
N/U	C00105	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
N/U	C00106	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
N/U	C00107	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
N/U	C00108	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
N/U	C00109	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
N/U	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner		

			in which a measurement has been taken		
N/U	C00111	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
N/U	C00112	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
N/U	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
N/U	C00114	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
N/U	C00115	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
N/U	MEA05	740	Range Minimum	X	R 1/20
			The value specifying the minimum of the measurement range		
N/U	MEA06	741	Range Maximum	X	R 1/20
			The value specifying the maximum of the measurement range		
N/U	MEA07	935	Measurement Significance Code	O	ID 2/2
			Code used to benchmark, qualify or further define a measurement value		
N/U	MEA08	936	Measurement Attribute Code	X	ID 2/2
			Code used to express an attribute response when a numeric measurement value cannot be determined		
N/U	MEA09	752	Surface/Layer/Position Code	O	ID 2/2
			Code indicating the product surface, layer or position that is being described		
N/U	MEA10	1373	Measurement Method or Device	O	ID 2/4
			The method or device used to record the measurement		

Segment:	TD1 Carrier Details (Quantity and Weight)
Position:	110
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:	<ol style="list-style-type: none"> 1 If TD101 is present, then TD102 is required. 2 If TD103 is present, then TD104 is required. 3 If TD106 is present, then TD107 is required. 4 If either TD107 or TD108 is present, then the other is required. 5 If either TD109 or TD110 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	<ol style="list-style-type: none"> 1. Use this 2/TD1/110 segment in 2/HL/010 manifest line item loops to identify container types and quantities and total weight/volume of the line item. 2. Use this segment for both hazardous and non-hazardous commodities. For hazardous commodities repeat the count of the number of containers in 2/LH1/152. 3. Use in Foreign Waste Shipment Summary to identify the quantity by weight or volume. 4. The shipment quantity must be expressed either in weight (use TD106-8) or volume (use TD109-10) but not both.

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
TD101	103 Packaging Code	O AN 3/5
	Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material	
	<ol style="list-style-type: none"> 1. Must use in manifests to identify the types of containers. 2. Typically use a code from part 1 to identify the type of container with a code from part 2 to identify the material (e.g., DRM58 would be a metal drum). However, part 1 codes BRG, TKR, TNK, and VEH do not have a part 2 code. See the conversion appendix for more information regarding container types. 	
	BAG	Bag
	BOX	Box
	BRG	Barge
	CYL	Cylinder
	DRM	Drum
	TKR	Tank Car

			TKT	Tank Truck		
			TNK	Tank		
				<i>Use to indicate a portable tank.</i>		
			VEH	Vehicles		
				<i>Use to indicate a dump truck.</i>		
			07	Burlap		
			13	Cloth		
			31	Fibre		
			37	Fiberboard		
			58	Metal		
			79	Plastic		
			94	Wood		
	TD102	80	Lading Quantity		X	N0 1/7
			Number of units (pieces) of the lading commodity			
			<i>Must use in manifests to identify the number of container(s).</i>			
N/U	TD103	23	Commodity Code Qualifier		O	ID 1/1
			Code identifying the commodity coding system used for Commodity Code			
N/U	TD104	22	Commodity Code		X	AN 1/30
			Code describing a commodity or group of commodities			
N/U	TD105	79	Lading Description		O	AN 1/50
			Description of an item as required for rating and billing purposes			
	TD106	187	Weight Qualifier		O	ID 1/2
			Code defining the type of weight			
			A	Consolidated Weight		
			DR	Drained Weight		
			N	Actual Net Weight		
	TD107	81	Weight		X	R 1/10
			Numeric value of weight			
			<i>Use to identify the total quantity in weight of the line item.</i>			
	TD108	355	Unit or Basis for Measurement Code		X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			<i>Use to identify the unit measure of weight. See the conversion appendix for appropriate codes.</i>			
			26	Actual Tons		
			KG	Kilogram		
			LB	Pound		
			MP	Metric Ton		
	TD109	183	Volume		X	R 1/8
			Value of volumetric measure			
			<i>Use to identify the total quantity of volume for the line item.</i>			

TD110 355 Unit or Basis for Measurement Code X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Use to identify the unit of measure for volume. See the conversion appendix for appropriate codes.

CO	Cubic Meters (Net)
CY	Cubic Yard
GA	Gallon
LT	Liter

Segment:	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)
Position:	140	
Loop:	HL	
Level:	Detail	
Usage:	Optional	
Max Use:	5	
Purpose:	To specify transportation special handling requirements, or hazardous materials information, or both	
Syntax Notes:	1 At least one of TD401 TD402 or TD404 is required. 2 If TD402 is present, then TD403 is required.	
Semantic Notes:	1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.	
Comments:		
Notes:	<i>1. Use this 2/TD4/140 segment in 2/HL/010 manifest line item loops to identify that the line item is carried in a labpack.</i> <i>2. Also use it in the 2/HL/010 shipment handler loop to identify split pickups and/or deliveries.</i>	

Data Element Summary				
Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
TD401	152	Special Handling Code	X	ID 2/3
		Code specifying special transportation handling instructions		
		SCC Special Containers		
		<i>Use to indicate a labpack.</i>		
		SDL Split Delivery		
		<i>Use only in the 2/HL/010 shipment handler loop to indicate that the waste is to be delivered to more than one TSDF.</i>		
		SF Split Pickup		
		<i>Use only in the 2/HL/010 shipment handler loop to indicate that the waste was received from more than one location.</i>		
N/U	TD402	208 Hazardous Material Code Qualifier	X	ID 1/1
		Code which qualifies the Hazardous Material Class Code (209)		
N/U	TD403	209 Hazardous Material Class Code	X	AN 1/4
		Code specifying the kind of hazard for a material		
N/U	TD404	352 Description	X	AN 1/80
		A free-form description to clarify the related data elements and their content		
N/U	TD405	1073 Yes/No Condition or Response Code	O	ID 1/1

Code indicating a Yes or No condition or response

Segment:	REF Reference Identification
Position:	150
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<ol style="list-style-type: none"> 1. Use this 2/REF/150 segment in the 2/HL/010 shipment handler loop to identify the state manifest number. 2. Also use this segment in DRMS shipments, in 2/HL/010 line item loops to identify the unique defense turn-in document (DTID) number when there is only a single DTID associated with the manifest line item AND the DTID quantity equals the line item quantity. When there are multiple DTIDs associated with a single manifest line item and/or the DTID quantity(s) are less than the line item quantity, use the 2/CLD/170 loop to identify the DTID(s) and the associated quantity. 3. Use in Foreign Waste Shipment Summary line item loops to identify the EPA manifest number associated with the waste line items.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use REF01	128	Reference Identification Qualifier	M	ID 2/3
		Code qualifying the Reference Identification		
		MA Ship Notice/Manifest Number		
		Use, if applicable, to indicate the state manifest number. Use in both Manifest and Foreign Waste Summary 2/HL/010 line item loops		
		MK Manifest Key Number		
		Must use only in Foreign Waste Shipment Summaries to indicate the EPA generator/manifest number applicable to the waste line item.		
		W1 Defense Turn-In Document Number		
		Use in DRMS shipments to indicate the DTID.		
Must Use REF02	127	Reference Identification	X	AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U REF03	352	Description	X	AN 1/80

			A free-form description to clarify the related data elements and their content		
N/U	REF04	C040	Reference Identifier	O	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
N/U	C04001	128	Reference Identification Qualifier	M	ID 2/3
			Code qualifying the Reference Identification		
N/U	C04002	127	Reference Identification	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	C04003	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
N/U	C04004	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
N/U	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **LH1** **Hazardous Identification Information**

Position: 152

Loop: LH1

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify the hazardous commodity identification reference number and quantity

Syntax Notes:

Semantic Notes:

Comments:

- 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
- 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
- 3 In LH109, a value of "R" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations and the words "- residue" following all placards associated with this description.

Notes: *Use this 2/LH1/152 loop in 2/HL/010 manifest line item loops to identify number of containers, hazardous codes and packaging groups. The repeat of the number of containers in 2/TD1/110 is used to meet X12 syntax requirements for entry into this LH1 loop.*

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
Must Use	LH101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			EA Each	
			<i>Use to indicate the number of containers of hazardous material.</i>	
Must Use	LH102	80	Lading Quantity	M N0 1/7
			Number of units (pieces) of the lading commodity	
	LH103	277	UN/NA Identification Code	O ID 6/6
			Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	
			<i>Use to identify UN hazardous identification number.</i>	
N/U	LH104	200	Hazardous Materials Page	O AN 1/6
			The United Nations page number as required for the international transport of hazardous materials	
N/U	LH105	22	Commodity Code	O AN 1/30
			Code describing a commodity or group of commodities	
N/U	LH106	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	

N/U	LH107	380	Quantity Numeric value of quantity	O	R 1/15
N/U	LH108	595	Compartment ID Code Code identifying the compartment in a compartmentalized tank car	O	ID 1/1
N/U	LH109	665	Residue Indicator Code Code indicating that the shipment is not a loaded movement but contains a residue from a prior movement	O	ID 1/1
	LH110	254	Packing Group Code Code indicating degree of danger in terms of Roman number I, II or III <i>Use to identify packaging group.</i>	O	ID 1/3
N/U	LH111	1375	Interim Hazardous Material Regulatory Number Identifies the current regulatory version number used for hazardous materials shipments	O	AN 1/5

Segment: LH2 Hazardous Classification Information**Position:** 153**Loop:** LH1**Level:** Detail**Usage:** Optional**Max Use:** 4**Purpose:** To specify the hazardous classification, placard notation, and endorsement information**Syntax Notes:** 1 If either LH206 or LH207 is present, then the other is required.**Semantic Notes:** 1 LH206 and LH207 indicate the flashpoint temperature.**Comments:****Notes:** 1. Use this 2/LH2/153 segment in 2/HL/010 in manifest line item loops to identify hazardous classification, reportable quantity codes and flash point temperatures.**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LH201	215	Hazardous Classification	O ID 1/30
		The hazardous classification corresponding to the shipping name of the hazardous commodity	
LH202	983	Hazardous Class Qualifier	O ID 1/1
		Code qualifying hazardous class	
		P Primary	
		S Secondary	
N/U	LH203	218 Hazardous Placard Notation	O ID 14/40
		The placard notation corresponding to the hazard class of the hazardous commodity	
N/U	LH204	222 Hazardous Endorsement	O ID 4/25
		The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	
LH205	759	Reportable Quantity Code	O ID 2/2
		Code to identify presence of hazardous substance	
		RQ Reportable Quantity	
LH206	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CE Centigrade, Celsius	
		FA Fahrenheit	
LH207	408	Temperature	X R 1/4
		Temperature	

Segment: **LH3** Hazardous Material Shipping Name
Position: 154
Loop: LH1
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.
Semantic Notes:
Comments:
Notes: *Must use this 2/LH3/154 segment in 2/HL/010 manifest line item loops to indicate the proper shipping name of the line item.*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LH301	224	Hazardous Material Shipping Name	X AN 1/25
		The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	
		<i>Must use to identify the proper shipping name.</i>	
LH302	984	Hazardous Material Shipping Name Qualifier	X ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name	
		D Domestic (United States) Shipping Name	
		I International Shipping Name	
N/U	LH303	985 N.O.S. Indicator Code	O ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified	

Segment: **LFH** Freeform Hazardous Material Information
Position: 155
Loop: LH1
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

Syntax Notes:**Semantic Notes:****Comments:**

Notes: *Use this 2/LFH/155 segment in 2/HL/010 manifest line item loops to provide additional hazardous material information not provided in other segments.*

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
Must Use	LFH01	808 Hazardous Material Shipment Information Qualifier	M ID 3/3
		Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements	
		ADI Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	
		D13 "DOT - 113, Do Not Bump or Cut Off Car While in Motion" Declaration	
		DWW "Dangerous When Wet" Declaration	
		HOT Identifies Products in a Heated Molten State	
		HZC Hazardous Substance Constituents	
		INH Inhalation Hazard	
		LQY "Limited Quantity" Declaration	
		MOS Maximum Operating Speed	
		PIH "Poison - Inhalation Hazard" Declaration	
		When used, must indicate the Hazard Zone Class in LFH04.	
		POI "Poison" Declaration	
		RAM Radioactive Material Data	
		TEC Technical or Chemical Group Name	
		TNM Trade Name	
Must Use	LFH02	809 Hazardous Material Shipment Information	M AN 1/25
		Specific information required by law for hazardous material shipments	
	LFH03	809 Hazardous Material Shipment Information	O AN 1/25
		Specific information required by law for hazardous material shipments	

LFH04

1023

Hazard Zone Code

O ID 1/1

Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone

Must use in conjunction with LFH01 code PIH.

A	Hazard Zone A
B	Hazard Zone B
C	Hazard Zone C
D	Hazard Zone D

Segment: **LEP** EPA Required Data
Position: 156
Loop: LH1
Level: Detail
Usage: Optional
Max Use: 3
Purpose: To specify the Environmental Protection Agency (EPA) information relating to shipments of hazardous material

Syntax Notes:**Semantic Notes:****Comments:**

- Notes:**
1. Must use this 2/LEP/156 segment in 2/HL/010 in manifest line item loops to indicate the Federal waste code.
 2. Also must use in Foreign Waste Shipment Summaries.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LEP01	806	EPA Waste Stream Number Code	O ID 4/4
		Waste stream number applicable to the movement of hazardous waste as determined by government regulations	
		Use to identify the Waste No.	
N/U	LEP02	807 Waste Characteristics Code	O ID 14/16
		Waste characteristics as defined by regulatory requirements	

Segment:	CLD Load Detail
Position:	170
Loop:	CLD
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the number of material loads shipped
Syntax Notes:	
Semantic Notes:	1 CLD05 is used to dimension the value given in CLD04.
Comments:	1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.
Notes:	<p>1. Use this 2/CLD/170 loop in DRMS shipments in 2/HL/010 item loops to identify multiple DTIDs and their associated quantities when more than one DTID is included within a single manifest line item.</p> <p>2. Also must use this loop to identify a DTID and its associated quantity when that quantity is less than the total line item quantity.</p> <p>For example, if a tank car containing a 1,000 gallons of waste moved from an interim to a final TSDF but only 300 gallons of that waste is being disposed for the transaction set recipient, then map as follows: use the 2/TD1/110 to report the 1,000 gallons and use this 2/CLD/170 loop to identify the 300 gallons and the DTID.</p> <p>If all 1,000 gallons was processed for the recipient use the 2/TD1/110 to report the quantity and the 2/REF/150 to identify the single DTID, and do not use this CLD loop.</p>

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	CLD01	622 Number of Loads	M N0 1/5
		Number of customer-defined loads shipped by the supplier	
		<i>Cite 0 to meet X12 syntax requirements. This data will not be processed by the receiving application.</i>	
Must Use	CLD02	382 Number of Units Shipped	M R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
		<i>Use to identify the number of containers associated with the DTID.</i>	
N/U	CLD03	103 Packaging Code	O AN 3/5
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material	
Must Use	CLD04	357 Size	O R 1/8
		Size of supplier units in pack	
		<i>Use to identify the weight/volume associated with the DTID.</i>	
Must Use	CLD05	355 Unit or Basis for Measurement Code	O ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

26	Actual Tons
CO	Cubic Meters (Net)
CY	Cubic Yard
GA	Gallon
KG	Kilogram
LB	Pound
LT	Liter
MP	Metric Ton

Segment: **REF** **Reference Identification**
Position: 180
Loop: CLD
Level: Detail
Usage: Optional
Max Use: 200
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: *Must use one and only one repetition with each iteration of the 2/CLD/170 segment.*

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification W1 Defense Turn-In Document Number	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
N/U	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
N/U	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
N/U	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
N/U	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
N/U	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
N/U	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
N/U	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
N/U	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as	X AN 1/30

specified by the Reference Identification Qualifier

Segment: DTM Date/Time Reference**Position:** 200**Loop:** HL**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1** At least one of DTM02 DTM03 or DTM06 is required.
 - 2** If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:**Comments:**

Notes: 1. Must use one occurrence of this 2/DTM/200 segment in the 2/HL/010 shipment handler loop to identify the estimated or actual shipment/manifest date.

2. Also must use one occurrence of this segment in each 2/HL/010 certification loop to specify the date of certification/receipt by the generator, transporter(s), and TSDF(s).

Data Element Summary

Ref.	Data				
Des.	Element	Name	Attributes		
Must Use	DTM01	374	Date/Time Qualifier	M	ID 3/3
			Code specifying type of date or time, or both date and time		
		011	Shipped		
			Use to indicate the date the waste left the generator (BSN06 is code NQ) or when the waste left the interim TSDF site (BSN06 is code TS).		
		017	Estimated Delivery		
			Use to indicate an estimated pick-up date when BSN06 is code P1.		
		458	Certification		
			Use to indicate the date of certification.		
	DTM02	373	Date	X	DT 6/6
			Date (YYMMDD)		
N/U	DTM03	337	Time	X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
N/U	DTM04	623	Time Code	O	ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the		

			codes that follow		
	DTM05	624	Century	O	N0 2/2
			The first two characters in the designation of the year (CCYY)		
N/U	DTM06	1250	Date Time Period Format Qualifier	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
N/U	DTM07	1251	Date Time Period	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		

Segment:	N1 Name
Position:	220
Loop:	N1
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 2 N105 and N106 further define the type of entity in N101.
Notes:	<ol style="list-style-type: none"> 1. Use multiple iterations of this 2/N1/220 loop as needed in the 2/HL/010 shipment handler loop to identify organizations and points of contact for the Generator, Transporters, TSDFs, and other associated organizations. 2. Must use one and only one iteration of this 2/N1/220 loop in each 2/HL/010 certification loop to identify the organization, facility identification number, and the name of the individuals providing certification. 3. In the shipment handler loop, if only one carrier transports the waste from the ship-from location to the TSDF, must use N101 code OC. If two carriers are used, must use codes OC and DC. If three or more transporters participate, must use codes OC and DC and additionally, must use one or more iterations of code CA to indicate the intermediate carriers. Use the same pattern in certification loops, however, use only one 2/N1/220 loop per each certification loop iteration. 4. If ALL the line items on the manifest are associated with the same ship-from organization identify the organization in the shipment handler loop. If the ship-from organization varies by line item, then identify the location in EACH line item loop. This also applies to ship-to organizations.

Data Element Summary

Ref.	Data		
Des.	Element	Name	Attributes
Must Use N101	98	Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
	2F	State	
		Use in shipment handler loops as needed to identify a state environmental agency. Must use when notifying a state environmental agency of failure to receive certification/confirmation of receipt of a hazardous waste shipment. Use only in conjunction when 1/BSN07/020 = A95.	

	<i>Also Use in the Foreign Waste Shipment Summary to indicate the state receiving the report.</i>
C4	Contract Administration Office <i>For U.S. Government shipments, must use in the shipment handler loop to indicate the Government office administering the disposal effort.</i>
CA	Carrier <i>Use in the shipment handler and certification loops only if more than two carriers are used. Use only to identify intermediate carriers - not the origin carrier or the destination carriers. In shipment handler loops use multiple iterations as needed to identify carriers 3, 4, etc. In certification loops use only one iteration of code CA (use another 2/HL/010 loop for each additional carrier).</i>
DC	Destination Carrier <i>Use in the shipment handler and certification loops to indicate a second carrier that delivers the waste to the Designated Facility. Must use once and only once if more than one carrier is used.</i>
GY	Treatment Facility <i>Use in the shipment handler and certification loops to indicate the shipping and/or receiving TSDF(s). Also must use in the Foreign Waste Shipment Summary shipment handler loop to indicate the receiving TSDF.</i>
IC	Intermediate Consignee <i>Use in the shipment handler and certification loops to indicate delivery to a temporary (intermediate) storage facility (not a TSDF).</i>
IM	Importer <i>Use in the shipment handler loop to indicate the importer of the waste.</i>
OC	Origin Carrier <i>Must use once in the shipment handler and certification loops to indicate Transporter #1 information.</i>
PK	Party to Receive Copy <i>Use multiple repetitions as needed in the shipment handler loop to indicate additional organization(s) to receive copies of the transaction set.</i>
PW	Pick Up Address <i>Use to indicate the pick-up location. Use only when different from code SF. Do not use in conjunction</i>

with code IC.

Use in the shipment handler loop when there is a single pick-up location for ALL line items on the manifest.

Use in ALL line item loops when there is more than one pick-up location.

SF

Ship From

1. Must use in the manifest shipment handler and certification loops to identify the Generator.

Use in the shipment handler loop when there is a single generator/pick-up location for ALL line items on the manifest.

Use in ALL line item loops when there is more than one generator/pick-up location.

2. Must use in the Foreign Waste Summary Report Shipment Handler loop to indicate the generator of the waste located in the foreign country.

SJ

Service Provider

Must use in DRMS shipments in the shipment handler loop to indicate the organization coordinating the disposal services.

N102	93	Name	X	AN 1/35
		Free-form name Use to identify the organization only when coded means are unavailable or insufficient.		
N103	66	Identification Code Qualifier	X	ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
		1 D-U-N-S Number, Dun & Bradstreet		
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
		10 Department of Defense Activity Address Code (DODAAC)		
		33 Commercial and Government Entity (CAGE)		
N104	67	Identification Code	X	AN 2/20
		Code identifying a party or other code		
N/U	N105	706 Entity Relationship Code	O	ID 2/2
		Code describing entity relationship		
N106	98	Entity Identifier Code	O	ID 2/2
		Code identifying an organizational entity, a physical location, or an individual		
		FR Message From		

TO

Use to indicate that the organization cited in N104 transmitted the transaction set.

Message To

Use to indicate that the organization cited in N104 is to receive the transaction set.

Segment: N2 Additional Name Information**Position:** 230**Loop:** N1**Level:** Detail**Usage:** Optional**Max Use:** 2**Purpose:** To specify additional names or those longer than 35 characters in length**Syntax Notes:****Semantic Notes:****Comments:**

Notes: *This segment is not necessary when the organization cited in N101 is described by a code in N103/N104. If needed, use to provide additional name information of the organization identified in N102.*

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	N201	93 Name	M AN 1/35
		Free-form name	
	N202	93 Name	O AN 1/35
		Free-form name	

Segment: **N3** Address Information
Position: 240
Loop: N1
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: *This segment is not necessary when the entity cited in N101 is described by a code in N103/N104. If needed, use to provide street address information of the organization identified in N102.*

Data Element Summary

	Ref.	Data	
	<u>Des.</u>	<u>Element</u>	<u>Name</u>
Must Use	N301	166	Address Information
			Address information
	N302	166	Address Information
			Address information

	<u>Attributes</u>
M	AN 1/35
O	AN 1/35

Segment: **N4 Geographic Location**

Position: 250

Loop: N1

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax Notes: 1 If N406 is present, then N405 is required.

Semantic Notes:

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: *This segment is not necessary when the entity cited in N101 is described by a code in N103/N104. If needed, use to provide geographical location information of the organization identified in N102.*

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	
N401	19 City Name Free-form text for city name	O AN 2/30
N402	156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26 Country Code Code identifying the country	O ID 2/3
N405	309 Location Qualifier Code identifying type of location Refer to 003060 Data Element Dictionary for acceptable code values.	X ID 1/2
N406	310 Location Identifier Code which identifies a specific location	O AN 1/30

Segment:	REF Reference Identification
Position:	260
Loop:	N1
Level:	Detail
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<ol style="list-style-type: none"> 1. Use this 2/REF/260 segment in the 2/HL/010 shipment handler loop to indicate the state identification numbers for the specified organization. 2. Must use in each certification loop to provide the personal identification number (PIN) of the person certifying transfer.

Data Element Summary

Ref.	Data	Element	Name	Attributes
Must Use	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			1J Facility ID Number	
			Must use in the 2/HL/010 shipment handler loop to indicate the state identification numbers for the carriers or facilities. Use in same loop iterations as N101 codes: OC, DC, CA, IC and GY.	
			2. Must use in the 2/HL/010 Foreign Waste Summary shipment handler loop to indicate the receiving TSDF state identification number.	
			4A Personal Identification Number (PIN)	
			Use to indicate the certifier's PIN.	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
N/U	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
N/U	REF04	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
N/U	C04001	128	Reference Identification Qualifier	M ID 2/3

			Code qualifying the Reference Identification		
N/U	C04002	127	Reference Identification	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	C04003	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
N/U	C04004	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
N/U	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
N/U	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **PER** **Administrative Communications Contact**
Position: 270
Loop: N1
Level: Detail
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:**Comments:**

- Notes:**
1. Use multiple repetitions of this 2/PER/270 segment as needed within each 2/N1/220 loop within the 2/HL/010 shipment handler loop to identify points of contact and communication numbers of the Generator, Transporters, TSDFs, and other organizations as needed.
 2. Must use one repetition of this 2/PER/270 segment for each iteration of the 2/N1/220 loop within each 2/HL/010 certification loop to identify the name of the individual making the certification and communications numbers.
 3. Use multiple repetitions as needed to identify a point(s) of contact and multiple communication numbers. When using multiple repetitions to identify different communications numbers for a single point of contact, repeat the name cited in PER02.

Data Element Summary

Ref.	Data	Attributes
Des.	Element	Name
Must Use	PER01	366
		Contact Function Code
		Code identifying the major duty or responsibility of the person or group named
		CE Certifier
		<i>Must use in each 2/HL/010 certification loop to indicate the certifying individual within the organization specified in the corresponding N1 segment. Use in conjunction with N101 codes GY, IC, SF, OC, DC, and CA.</i>
		EM Emergency Contact
		<i>Use in the 2/HL/010 shipment handler loop in conjunction with any N101 code (except PK) to indicate an emergency point of contact.</i>
		HM Hazardous Material Contact
		<i>Use in the 2/HL/010 shipment handler loop in conjunction with any N101 code (except PK) to indicate the hazardous material point-of-contact for</i>

the organization specified in the corresponding N1 segment.

IC

Information Contact

Use in the 2/HL/010 shipment handler loop in conjunction with any N101 code to indicate an individual point-of-contact within the organization specified in the corresponding N1 segment.

PER02**93****Name****O AN 1/35**

Free-form name

1. Must Use in Certification loops.

2. Provide the last name, first name, middle initial and rate/rank/title as required, of the individual(s). Include blank spaces between name components and periods after initials. Do not include NMN when a middle initial is not available.

Must Use PER03**365****Communication Number Qualifier****X ID 2/2**

Code identifying the type of communication number

1. Use to identify types of communications.

2. Must use one of codes TE or IT to identify the preferred method of communication. Use PER05/06 and PER07/08 to identify additional communications numbers. Use additional repetitions of the PER segment to identify more than three numbers.

3. Do not include blank spaces or dashes between numbers.

IT

International Telephone

Include country and city codes as needed.

TE

Telephone

Use to indicate the commercial telephone number. Include the area code and number. Must use this code or IT.

Must Use PER04**364****Communication Number****X AN 1/80**

Complete communications number including country or area code when applicable

PER05**365****Communication Number Qualifier****X ID 2/2**

Code identifying the type of communication number

1. Use to identify an alternate, or secondary, communications number which can be used to contact the entity identified in PER01.

2. Do not include blank spaces or dashes between numbers.

AU

Defense Switched Network

EM

Electronic Mail

EX

Telephone Extension

When used, there must be a previous communication number citing either a national or international

			<i>telephone number.</i>
		FX	Facsimile
		IT	International Telephone
			<i>Include country and city codes as needed.</i>
		TE	Telephone
			<i>Use to indicate the commercial telephone number.</i>
			<i>Include the area code and number.</i>
PER06	364	Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	
PER07	365	Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		<i>1. Use to identify an alternate, or secondary, communications number which can be used to contact the entity identified in PER01.</i>	
		<i>2. Do not include blank spaces or dashes between numbers.</i>	
		AU	Defense Switched Network
		EM	Electronic Mail
		EX	Telephone Extension
			<i>When used, there must be a previous communication number citing either a national or international telephone number.</i>
		FX	Facsimile
		IT	International Telephone
			<i>Include country and city codes as needed.</i>
		TE	Telephone
			<i>Use to identify the commercial telephone number.</i>
			<i>Include the area code and number.</i>
PER08	364	Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	
PER09	443	Contact Inquiry Reference	O AN 1/20
		Additional reference number or description to clarify a contact number	

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use SE01	96	Number of Included Segments	M N0 1/10
		Total number of segments included in a transaction set including ST and SE segments	
Must Use SE02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		<i>This is the same number that appears in ST02.</i>	